

Anti-MUT Picoband Antibody

Catalog # ABO10146

#### Specification

## **Anti-MUT Picoband Antibody - Product Information**

ApplicationWB, IHC-PPrimary AccessionP22033HostRabbitReactivityHuman, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Methylmalonyl-CoA mutase, mitoc

Rabbit IgG polyclonal antibody for Methylmalonyl-CoA mutase, mitochondrial(MUT) detection. Tested with WB, IHC-P in Human;Rat.

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### **Anti-MUT Picoband Antibody - Additional Information**

Gene ID 4594

**Other Names** Methylmalonyl-CoA mutase, mitochondrial, MCM, 5.4.99.2, Methylmalonyl-CoA isomerase, MUT

Calculated MW 83134 MW KDa

**Application Details** Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, By Heat<br><br><br>Western blot, 0.1-0.5 μg/ml, Human, Rat<br>

**Subcellular Localization** Mitochondrion matrix.

**Protein Name** Methylmalonyl-CoA mutase, mitochondrial

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen A synthetic peptide corresponding to a sequence at the N-terminus of human MUT (33-65aa LHQQQPLHPEWAALAKKQLKGKNPEDLIWHTPE), different from the related mouse sequence by one amino acid.

**Purification** Immunogen affinity purified.



**Cross Reactivity** No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

### **Anti-MUT Picoband Antibody - Protein Information**

Name MMUT (HGNC:7526)

Function

Catalyzes the reversible isomerization of methylmalonyl-CoA (MMCoA) (generated from branched-chain amino acid metabolism and degradation of dietary odd chain fatty acids and cholesterol) to succinyl-CoA (3-carboxypropionyl-CoA), a key intermediate of the tricarboxylic acid cycle.

**Cellular Location** Mitochondrion matrix. Mitochondrion. Cytoplasm

### **Anti-MUT Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-MUT Picoband Antibody - Images





Western blot analysis of MUT expression in rat kidney extract (lane 1) and 22RV1 whole cell lysates (lane 2). MUT at 83KD was detected using rabbit anti- MUT Antigen Affinity purified polyclonal antibody (Catalog #ABO10146) at 0.5  $\hat{1}_{4}$ g/mL. The blot was developed using chemiluminescence (ECL) method.



MUT was detected in paraffin-embedded sections of human intetsinal cancer tissues using rabbit anti- MUT Antigen Affinity purified polyclonal antibody (Catalog # ABO10146) at 1  $\hat{1}/_4$ g/mL. The immunohistochemical section was developed using SABC method .



MUT was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-MUT Antigen Affinity purified polyclonal antibody (Catalog # ABO10146) at 1  $\hat{l}_{4}^{1}$ g/mL. The immunohistochemical section was developed using SABC method .



MUT was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- MUT Antigen Affinity purified polyclonal antibody (Catalog # ABO10146) at 1  $\hat{l}_{4}$ g/mL. The immunohistochemical section was developed using SABC method .

# Anti-MUT Picoband Antibody - Background



Methylmalonyl-CoA mutase (MUT) is a mitochondrial enzyme that catalyzes the isomerization of methylmalonyl-CoA to succinyl-CoA. This gene is mapped to 6p12.3. MUT requires a vitamin B12-derived prosthetic group, adenosylcobalamin (commonly referred to as AdoCbl), to function. And the product of this enzyme, succinyl-CoA, is a key molecule of the TCA cycle.